

PC-0039 US

<110> Chen, Huei-Mei  
Honchell, Cynthia D.  
Tang, Y. Tom

<120> Mucin-Related Tumor Marker

<130> PC-0039 US

<140> To Be Assigned

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agaggccctg	gttgatgtga	aaattgatga	aaataaatgt	tgggatttgt	acacagaggg	180	
caagagcaaa	ggaggccctg	aagaagaaga	agaggaggag	gaggaagagg	aggaggagga	240	
gtcactaaca	aactcagcat	cagtgctccag	aacaaccgaa	gtgttcggga	tattaatggt	300	
gggtgtgtag	gacggaaggt	tggatgtatg	cagaactggc	gactcagtag	aaggctgagc	360	
atattccccg	tcataggatg	agatgttact	tctctcagtc	tgagcatgag	aaaaggagga	420	
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tgaggatgaa	ctgttatctg	taattggacag	taacgcccgt	tctccttttg	tgaaagtaga	540	
tgacaggtag	gtgtggtctg	tgtggtcgct	ggaagtcctt	cgttcaatag	ctgtgcccacg	600	
cacttgaccg	tagctaattc	cagcgattga	acgttctcca	cgttggtgctg	atgaattcaa	660	

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gctttccgag gaagatgtcg atgaagacct ctgaataact cctatctccc aatgctgtgt 720  
gacttcctcc agactgtaca gtagagtctg agaactgggt caacactgaa gcattcacac 780  
cttcaggata atgaagcaga gttcctgtca catctgcaga tgttggtgctg tgggccaaaga 840  
gcccggtgtgc agtggatccc tccaccctct catgggtgcg aatgacctag acccagctcc 900  
agtctgagac 910

<210> 5  
<211> 643  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 71060123V1

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atcaacaatg acatcattca tgacaatgct ccatagtagt caaactgcag accttaagag 180  
ccagagcacc ccacaccaag agaaagtcac tacagaatca aagtcaccaa gcctgggtgc 240  
tctgcccaca gagtccacca aagctgtaac aacaaactct ccttgccctc atccttaaca 300  
gagtcctcca cagagcaaac ccttcacagc acaagcacca acttagcaca aatgtctcca 360  
actttcacaa ctaccattct gaagacctct cagcctctta tgaccactcc tggcacctcg 420  
tcaagcacag catctctggt cactggccct atagccgtac agactacagc tggaaaacag 480  
ctctcgctga cccatcctga aatactagtt cctcaaatct caacagaagg tggcatcagc 540  
acagaaagga accgagtgat tgtggatgct accactggat tgatcccttt gaccagtgtg 600  
cccacatcag caaaagaaat gaccacaaag cttgggggtta cag 643

<210> 6  
<211> 554  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 7437161H1

<400> 6  
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agacttgggt cccaaatctg ccacctttgc tgttcagagc agcacacagt caccaacaac 180  
actgtcctct tcagcctcag tcaacagctg tgctgtgaac ccttgtcttc acaatggcga 240  
atgcgtcgca gacaacacca gccgtggcta ccaactgcagg tgcccgcctt cctggcaagg 300  
ggatgattgc agtgtggatg tgaatgagtg cctgtcgaac ccctgcccac ccacagccac 360  
gtgcaacaat actcagggat cctttatctg caaatgcccg gttgggtacc agttggaaaa 420  
agggatatgc aatttgggtta gaaccttcgt gacagagttt aaattaaaga gaacttttct 480  
taatacaact gtggaaaaac attcagacct acaagaagtt gaaaatgaga tcaccaaaac 540  
gttaaatatg tggt 554

<210> 7  
<211> 571  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 71247228V1

<400> 7  
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tcacgcctct agggagtcca acgcgggtggg gatctcactg caaacaacct tttccctggc 120



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ctccaatgtg acgctatttg acctggctga taggatgcag aaatgtgtca actcctgcaa 180
ggtcctctgc tgaggctctgc cagctcttgg gatctcagag gcggatcttt agagcgggca 240
gcttggtgcaa gcggaagagt cccgaatgtg acaaagacac ctccatctgc actgacctgg 300
acggcggttg cctgtgccag tgcaagtcgg gatactttca gttcaacaag atggaccact 360
cctgccgagc atgtgaagat ggatataggg ttgaaaatga aacctgcatg agttgccccat 420
ttggccttgg tggctctcaac tgtggaaacc cctatcagct tatcactgtg gtgatcgcag 480
ccgcgggagg tgggctcctg ctcatectag gcategcact gattgttacc tgttgacagaa 540
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<210> 8

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 6475676H1

<400> 8

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gcttatcact gtggtgatcg cagccgcggg aggtgggctc ctgctcatcc taggcatcgc 120
actgattgtt acctgttgca gaaagaataa aaatgacata agcaaactca tcttcaaaag 180
tgagattttc caaatgtccc cgtatgctga ataccccaaa aatcctcgct cacaagaatg 240
gggcccagaa gctattgaaa tgcattgagaa tgggaagtacc aaaaacctcc tccagatgac 300
ggatgtgtac tactcgccca caagtgtgaa gaatccagaa cttgaacgaa acggactcta 360
cccgggctac actggactgc caggatcacg ggattcttgc attttccccg gacagtataa 420
accgtctttc atc 433
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<210> 9

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 7735769H1

<400> 9

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cgatgtgtga ctactgcctt acaagtgtaa ggaatccaga acttgaacga aacggactct 120
accggccta cactggactg ccaggatcac ggcattcttg cattttcccc ggacagtata 180
accgctcttt catcagtgat gaaagcagaa gaagagacta cttttaagtc caggagagag 240
agggactcat tgctctgagc cagtcacctg ggacctctgc tcagaggacc gcaccaggag 300
gctgcgcccc ggatttgcg ggagccacgc tgagtggcaa gcaggaacga gggacaggca 360
tgcggggcgt gaccacagtg gaggagacag gtggatgtgg aaccacaggc tgctcattca 420
gcacctttgt tgttactgtg aacgtgaatg tgggccagta tcaagagagt ctctctgagt 480
gactgcacca tggcactggc accagggcga ctattagcca gggcagacca ctagactt 538
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<210> 10

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 7180688H1

<400> 10

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ggtttccttt tggatctgtt ttgagactgt tccagaaaaga aggcttcctt tcccagagaa 120
cttccatagg cagcaatttg gtgattcatt tgcagcaaaa tactggcttg ttaattattt 180
```

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```
tccctgcccag cgcctgcgtg ctaaacaaca gatgaggatg agcgtaccac tgaagtctga 240
agatgtcgcc attgaacgga cagtgttttc atatgtttct aggttgtctt atgctacagt 300
ttccaagcca gccccacag tgaggaaatg tgtgaggcac cgcacacaac tgcaatgtgt 360
tttttaagtc aaggtgacac atgtatttaa gatttttttt taaaatctct ttgcagttaa 420
atctcacttt ttcaaacaag cctggatcag ggcaaaacaa cttatatattg gtttttagctg 480
gaggctcagc aggagattg caggcagggg ggcacttttc atccatgaga ggccagcctg 540
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<210> 11

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 70650868V1

<400> 11

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gcaattaaag acaccgagta ctggatgtct ccctggcagg acccacatca caggcataat 120
aaataagatg agtggaaactt ccttcccga ggtcaaccct cagttcctcg accaaccgga 180
agtcttcagt tctccacac tgactggaag tataaccacg tttctggagg gtgcgacaca 240
gccatatgaa gaggtacaaa tgactgggtg agaaaaaaaaa gttatttctt cagccgaata 300
aacagctttg agtggttgaa agtttacatg gggtttgtgg acatgagatt ctgggtacaa 360
agtgtcgcag tagccggtga gcaaactcat gtgtgggtcc atctcggtc cctgttcttc 420
ctcaggaatc cacacagctt cccaaagcac tgttgatgca ggaaatctaa cctggctatt 480
cagcccatcc ctctaaccac atccagctgc aggggctcaa caagctgctt tccatagagt 540
gtgaaacctg cgttcagttt gacattttct cctccataag caggttgctc tggcctccac 600
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<210> 12

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2359874T6

<400> 12

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tgaagcgagg ctccccgctt cagggtggag acaattcttt tacctctgta tccccctcac 120
ttcatccaaa accaggatgc cccaaagaag gccataaac acagttcccc aggtgggaat 180
taaagacacc gagtactgga tgtctccctg gcaggaccca catcacaggc ataataaata 240
agatgagtg aacttccttc ccgaagtcaa ccctcagttc ctcgaccaac cggaagtctt 300
cagttctccc aactgactg gaagtataac cacgtttctg gagggtgcga cacagccata 360
tgaaggaatt c 371
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<210> 13

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2359874R6

<400> 13

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aactgaagac ttccggttgg tcgaggaact gaggggtgac cttcggaag gaagttccac 120
tcatcttatt tattatgcct gtgatgtggg tctgccagg gagacatcca gtactcgggtg 180
tctttaattg ccacctgggg aactgtgttt attggccttc tttggggcat cctgggtttt 240
```

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```
gatgaagtga ggggaataca gaggtaaaag aattgtctcc accctgaagc ggggagtcctc 300
gcttcacatt tctggaaatg gtgcagccac tggggacagt tctgcccccg gcatgggtgt 360
ttcttcaagg tcctctaaat ataatcccta ttcttacat 399
```

<210> 14  
<211> 595  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 70650365V1

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tctgcccccg gcatgggtgt ttcttcaagg tcctctaaat ataatcccta ttcttacata 180
atcctgtggc ctgatggttt taagcaagaa ctctgtgtc ccatgggtctc caccactcac 240
catcaccttg ctgtagcaag agtcctagtc aggggaggtg catttttagta gttaaatggc 300
acttatccat gagataaata aaaggagaac tgtttttatc agtggaggct aacctaaaat 360
ttcaaagtgt cgcctttttg aaatctgggg cctctctctc tgtagaacca atggcccttg 420
gtggctcacg gcctcgcacc ctaactggag agttctgagc tctgcagct cacctgagcc 480
cacagactag gcttcttggc tccttccgca gcaggctggt tcaccccaga acccgagct 540
gtgggaagag ccatgtaggg aggctaatac caggcataca cttccactgc cttca 595
```

<210> 15  
<211> 549  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1241344R6

<220>  
<221> unsure  
<222> 442, 460, 515  
<223> a, t, c, g, or other

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<400> 15
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gggaggctat tcccaggcat aacttccac tgccttcagc tgacgtcaca gctgacaaat 180
catctcctct atcggagcca gaagacttca gctccacaaa atgaagtgtt ctgtcctgaa 240
aacattcttg ggaagaatcc caacatcgag aaaacggtgt cctgtgagtt ccaacaatgc 300
ttcttggtca tgggtttctt ccgtatggag tggattaaga gtgttttatt ttgttggtct 360
aactgagaaa aaaaggaggc acccacaagg ttgaggtcac acagtctcca cagtttccag 420
gaggcgtttg ggggtgggga angcacctcc agagcatgan ggctctaagg ggacatgagt 480
aaagcatgtc tgtgaccag tgaggaaagg gagangccag ctgcactcct gcaacggggg 540
ttcctagct 549
```

<210> 16  
<211> 272  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 008938H1

<220>

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<221> unsure

<222> 75, 106, 112, 163, 167, 192, 252

<223> a, t, c, g, or other

<400> 16

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gaggggaaac acctnatagc agaagaggcc tggatgcaca cctggnacgc cnaggctctc 120
cgcccagaca cagtgtccca tgtcaacccc tgcacctggg gtntgtnatt cacgtgcaca 180
gatgccacaa tntgcacca atatcccaca gatgggggaa ggtgagagga aggggcaagt 240
aatgtgtacc tntcaagag atgcttaaac ct 272
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<210> 17

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2580841F6

<220>

<221> unsure

<222> 162, 251

<223> a, t, c, g, or other

<400> 17

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aaggccctgg agtctgttcc tttaggcgga tgaactgaca tgctcctacc atgaccaggc 120
tctgggcaag gtccttcaca gtatccttga gaggtgggca tngaagtgcc catttctcag 180
gtacagaaac cttcagagag gataaatagc ttgcccctgta gaagcaggac tgaaaccctt 240
gtccgcctga ntccccagc tactctgccc actgtagccc cctgccttac tgctcctggca 300
caccctcac catcctgtat accttaaata tcaaagaggg caagagagaa agggcctttaa 360
agataagtta tttttttaag gaaccttaat attattttta agaagtaacc aaattagtga 420
cgtg 424
```

<210> 18

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 70621193V1

<400> 18

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gcttttaaaga taagttattt ttttaaggaa ccttaatatt atttttaaga agtaacccaa 120
ttagtgacgt gaaatgcaaa aaaaaaaaaa aaaaatgtct gactaccctt ttggaaaagt 180
gtgcttccag attggctttt ttatagtgtg attctttaga cacttggtca ttaagaaaaa 240
tagtggcggg ctggtgcttc agcaagaagc acacgggcac ggtggccttg gatataggag 300
gtggaaggca aggaccgggt gtttctggac aggtggcggc cagacttaca cttccatctg 360
gagagctggg ggctttggtc ccctgggtag ggccatgggt tccccactat tactgggaag 420
ctatagggtg 430
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<210> 19

<211> 957

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

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<223> Genbank ID No: g2853301

<400> 19

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Thr	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Ser	His	Ser	Thr	Pro	Ser
				20					25					30
Tyr	Thr	Thr	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Ser	His	Ser	Thr
				35					40					45
Pro	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His
				50					55					60
Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Ile	Arg	Thr	Thr	Glu	Thr	Thr
				65					70					75
Ser	Tyr	Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Asn	Thr	Ile	Thr	Glu
				80					85					90
Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Tyr	Ile	Thr	Ser	Ile	Thr	Thr
				95					100					105
Thr	Glu	Thr	Pro	Ser	Ser	Ser	Thr	Pro	Ser	Phe	Ser	Ser	Ser	Ile
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Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Gly	Phe	Thr	Ser
				125					130					135
Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Phe
				140					145					150
Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Asp	Thr	Pro
				155					160					165
Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Ser	Glu	Thr	Pro	Ser	His	Ser
				170					175					180
Thr	Pro	Ser	Ser	Thr	Ser	Leu	Ile	Thr	Thr	Thr	Lys	Thr	Thr	Ser
				185					190					195
His	Ser	Thr	Pro	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr
				200					205					210
Thr	Ser	His	Ser	Ala	Arg	Ser	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr
				215					220					225
Glu	Thr	Thr	Ser	His	Asn	Thr	Arg	Ser	Phe	Thr	Ser	Ser	Ile	Thr
				230					235					240
Thr	Thr	Glu	Thr	Asn	Ser	His	Ser	Thr	Thr	Ser	Phe	Thr	Ser	Ser
				245					250					255
Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His	Ser	Thr	Pro	Ser	Phe	Ser
				260					265					270
Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Pro	Leu	His	Ser	Thr	Pro	Gly
				275					280					285
Leu	Pro	Ser	Trp	Val	Thr	Thr	Thr	Lys	Thr	Thr	Ser	His	Ile	Thr
				290					295					300
Pro	Gly	Leu	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr	Ser	His
				305					310					315
Ser	Thr	Pro	Gly	Phe	Thr	Ser	Ser	Ile	Thr	Thr	Thr	Glu	Thr	Thr
				320					325					330
Ser	Glu	Ser	Thr	Pro	Ser	Leu	Ser	Ser	Ser	Thr	Ile	Tyr	Ser	Thr
				335					340					345
Val	Ser	Thr	Ser	Thr	Thr	Ala	Ile	Thr	Ser	His	Phe	Thr	Thr	Ser
				350					355					360
Glu	Thr	Ala	Val	Thr	Pro	Thr	Pro	Val	Thr	Pro	Ser	Ser	Leu	Ser
				365					370					375
Thr	Asp	Ile	Pro	Thr	Thr	Ser	Leu	Arg	Thr	Leu	Thr	Pro	Ser	Ser
				380					385					390
Val	Gly	Thr	Ser	Thr	Ser	Leu	Thr	Thr	Thr	Thr	Asp	Phe	Pro	Ser
				395					400					405
Ile	Pro	Thr	Asp	Ile	Ser	Thr	Leu	Pro	Thr	Arg	Thr	His	Ile	Ile
				410					415					420
Ser	Ser	Ser	Pro	Ser	Ile	Gln	Ser	Thr	Glu	Thr	Ser	Ser	Leu	Val
				425					430					435

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Gly	Thr	Thr	Ser	Pro	Thr	Met	Ser	Thr	Val	Arg	Met	Thr	Leu	Arg
				440					445					450
Ile	Thr	Glu	Asn	Thr	Pro	Ile	Ser	Ser	Phe	Ser	Thr	Ser	Ile	Val
				455					460					465
Val	Ile	Pro	Glu	Thr	Pro	Thr	Gln	Thr	Pro	Pro	Val	Leu	Thr	Ser
				470					475					480
Ala	Thr	Gly	Thr	Gln	Thr	Ser	Pro	Ala	Pro	Thr	Thr	Val	Thr	Phe
				485					490					495
Gly	Ser	Thr	Asp	Ser	Ser	Thr	Ser	Thr	Leu	His	Thr	Leu	Thr	Pro
				500					505					510
Ser	Thr	Ala	Leu	Ser	Thr	Ile	Val	Ser	Thr	Ser	Gln	Val	Pro	Ile
				515					520					525
Pro	Ser	Thr	His	Ser	Ser	Thr	Leu	Gln	Thr	Thr	Pro	Ser	Thr	Pro
				530					535					540
Ser	Leu	Gln	Thr	Ser	Leu	Thr	Ser	Thr	Ser	Glu	Phe	Thr	Thr	Glu
				545					550					555
Ser	Phe	Thr	Arg	Gly	Ser	Thr	Ser	Thr	Asn	Ala	Ile	Leu	Thr	Ser
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Phe	Ser	Thr	Ile	Ile	Trp	Ser	Ser	Thr	Pro	Thr	Ile	Ile	Met	Ser
				575					580					585
Ser	Ser	Pro	Ser	Ser	Ala	Ser	Ile	Thr	Pro	Val	Phe	Ser	Thr	Thr
				590					595					600
Ile	His	Ser	Val	Pro	Ser	Ser	Pro	Tyr	Ile	Phe	Ser	Thr	Glu	Asn
				605					610					615
Val	Gly	Ser	Ala	Ser	Ile	Thr	Gly	Phe	Pro	Ser	Leu	Ser	Ser	Ser
				620					625					630
Ala	Thr	Thr	Ser	Thr	Ser	Ser	Thr	Ser	Ser	Ser	Leu	Thr	Thr	Ala
				635					640					645
Leu	Thr	Glu	Ile	Thr	Pro	Phe	Ser	Tyr	Ile	Ser	Leu	Pro	Ser	Thr
				650					655					660
Thr	Pro	Cys	Pro	Gly	Thr	Ile	Thr	Ile	Thr	Ile	Val	Pro	Ala	Ser
				665					670					675
Pro	Thr	Asp	Pro	Cys	Val	Glu	Met	Asp	Pro	Ser	Thr	Glu	Ala	Thr
				680					685					690
Ser	Pro	Pro	Thr	Thr	Pro	Leu	Thr	Val	Phe	Pro	Phe	Thr	Thr	Glu
				695					700					705
Met	Val	Thr	Cys	Pro	Thr	Ser	Ile	Ser	Ile	Gln	Thr	Thr	Leu	Thr
				710					715					720
Thr	Tyr	Met	Asp	Thr	Ser	Ser	Met	Met	Pro	Glu	Ser	Glu	Ser	Ser
				725					730					735
Ile	Ser	Pro	Asn	Ala	Ser	Ser	Ser	Thr	Gly	Thr	Gly	Thr	Val	Pro
				740					745					750
Thr	Asn	Thr	Val	Phe	Thr	Ser	Thr	Arg	Leu	Pro	Thr	Ser	Glu	Thr
				755					760					765
Trp	Leu	Ser	Asn	Ser	Ser	Val	Ile	Pro	Leu	Pro	Leu	Pro	Gly	Val
				770					775					780
Ser	Thr	Ile	Pro	Leu	Thr	Met	Lys	Pro	Ser	Ser	Ser	Leu	Pro	Thr
				785					790					795
Ile	Leu	Arg	Thr	Ser	Ser	Lys	Ser	Thr	His	Pro	Ser	Pro	Pro	Thr
				800					805					810
Thr	Arg	Thr	Ser	Glu	Thr	Pro	Val	Ala	Thr	Thr	Gln	Thr	Pro	Thr
				815					820					825
Thr	Leu	Thr	Ser	Arg	Arg	Thr	Thr	Arg	Ile	Thr	Ser	Gln	Met	Thr
				830					835					840
Thr	Gln	Ser	Thr	Leu	Thr	Thr	Thr	Ala	Gly	Thr	Cys	Asp	Asn	Gly
				845					850					855
Gly	Thr	Trp	Glu	Gln	Gly	Gln	Cys	Ala	Cys	Leu	Pro	Gly	Phe	Ser
				860					865					870
Gly	Asp	Arg	Cys	Gln	Leu	Gln	Thr	Arg	Cys	Gln	Asn	Gly	Gly	Gln
				875					880					885
Trp	Asp	Gly	Leu	Lys	Cys	Gln	Cys	Pro	Ser	Thr	Phe	Tyr	Gly	Ser

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Ser	Cys	Glu	Phe	Ala	Val	Glu	Gln	Val	Asp	Leu	Asp	Ala	Glu	Asp
				890					895					900
				905					910					915
Phe	Cys	Arg	His	Ala	Gly	Leu	His	Leu	Gln	Gly	Cys	Gly	Asp	Pro
				920					925					930
Val	Pro	Glu	Glu	Trp	Gln	His	Arg	Gly	Gly	Leu	Pro	Gly	Pro	Ala
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Gly	Asp	Ala	Leu	Gln	Pro	Pro	Ala	Gly	Glu	Arg	Val			
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<212> PRT

<213> Sus scrofa

<220>

<221> misc\_feature

<223> Genbank ID No: g915208

<400> 20

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Ser	Thr	Thr	Ser	Val	Gln	Ser	Ser	Ser	Ser	Ser	Ser	Val	Pro	Ile
				20					25					30
Pro	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly	Ser	Ala	Pro
				35					40					45
Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser	Pro
				50					55					60
Pro	Ile	Ser	Ser	Thr	Ile	Ser	Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser
				65					70					75
Val	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser
				80					85					90
Ser	Ala	Pro	Thr	Thr	Arg	Ala	Thr	Ser	Val	Gln	Ser	Ser	Ser	Ser
				95					100					105
Ser	Ser	Ala	Pro	Ile	Ser	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser
				110					115					120
Ser	Gly	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Ser	Ser
				125					130					135
Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro
				140					145					150
Ser	Ser	Ser	Ser	Ser	Pro	Pro	Ile	Ser	Ser	Thr	Val	Ser	Val	Gln
				155					160					165
Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val
				170					175					180
Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro	Ile	Ser	Ser	Thr	Val	Ser
				185					190					195
Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Thr	Thr
				200					205					210
Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala
				215					220					225
Thr	Ser	Val	Arg	Ser	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Ser
				230					235					240
Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr
				245					250					255
Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile
				260					265					270
Pro	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro
				275					280					285
Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro
				290					295					300
Pro	Ile	Ser	Ser	Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser

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Ser	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly
				305					310					315
				320					325					330
Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser
				335					340					345
Ser	Ser	Pro	Pro	Ile	Ser	Ser	Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser
				350					355					360
Ser	Ser	Ser	Ser	Pro	Thr	Thr	Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser
				365					370					375
Ser	Ser	Gly	Ser	Ala	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro
				380					385					390
Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser	Val	Arg
				395					400					405
Ser	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Thr	Thr	Thr	Ser	Val
				410					415					420
Gln	Pro	Ser	Ser	Ser	Ser	Ser	Val	Pro	Thr	Thr	Ser	Ala	Thr	Ser
				425					430					435
Val	Gln	Thr	Ser	Ser	Ser	Ser	Ser	Thr	Pro	Ile	Pro	Ser	Thr	Thr
				440					445					450
Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ala	Pro	Thr	Thr	Ser	Ala
				455					460					465
Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro	Ile	Ser	Ser
				470					475					480
Thr	Ile	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Ser	Pro	Thr	Thr
				485					490					495
Ser	Thr	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Gly	Ser	Ala	Pro	Thr
				500					505					510
Thr	Ser	Ala	Thr	Ser	Val	Gln	Pro	Ser	Ser	Ser	Ser	Ser	Pro	Pro
				515					520					525
Ile	Ser	Ser												